

From: [Warren, Christy](#)
To: [Flores, Raymond](#); [Gregg, Diane](#)
Cc: [Moore, Gary](#)
Subject: RE: Assistance Needed
Date: Monday, November 10, 2014 11:01:27 AM

Ray,

Welcome back! FYI – The Region 6 Lab has 2 samples in house that the Organic Team is working on so that we can attempt to help Gary.

Christy Warren

U.S. EPA Region 6 Laboratory
Sample Control Coordinator
10625 Fallstone Road
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From: Flores, Raymond
Sent: Monday, November 10, 2014 10:59 AM
To: Gregg, Diane; Warren, Christy
Cc: Moore, Gary
Subject: RE: Assistance Needed

Gary,

I agree with Diane especially with respect to interferences being a limiting factor. You can try various high resolution techniques to try to find unique masses that aren't masked by the interferences. Hexachlorobenzene has a higher mass parent peak and parent peak cluster which may be helpful when using a high resolution technique. This would take some research by an experienced analyst.

Raymond Flores
281 983 2139
Region 6 Superfund CLP PO
Region 6 Alt. ESAT PO
DW Certification Officer
TNI NELAP AB Evaluator
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from your system.

From: Gregg, Diane

Sent: Wednesday, November 05, 2014 8:19 AM

To: Warren, Christy

Cc: Moore, Gary; Flores, Raymond

Subject: RE: Assistance Needed

I'm not sure I completely understand the table; however, it appears that most of the containers with codes that could not be excluded have sludge or oil in the consistency description. I am not surprised that the presence of oil would cause issues for 2,4-DNT and Hexachlorobenzene since these compounds have the lowest MCLs under TCLP. There's only so much oil you can put through a GC/MS before it makes the analysis unusable. Also, 2,4-DNT has quant and qual masses that are usually present in oil (in that typical hydrocarbon hump) so analyzing this by SIM probably wouldn't yield any better data. It's too difficult to distinguish from background in the oil. HCB does have unique masses and SIM should help. As for Chlordane, if the lab performs a sulfuric acid cleanup on the sample extract, they should remove most of the interferences from the oil and the analysis should be relatively easy after that cleanup.

The only option I can think for 2,4-DNT is GC/QQQ. This analysis creates daughter ions that may be unique enough to quantify. Just keep in mind we did this for Norphlet (aka MacMillan Ring free) and the masses for some PAHs were not unique enough from the oil. This is for DNT so it might work. We'd never know until we tried.

From: Warren, Christy

Sent: Wednesday, November 05, 2014 7:59 AM

To: Gregg, Diane

Cc: Moore, Gary; Flores, Raymond

Subject: FW: Assistance Needed

Diane,

Can you help Gary?

2,4 Dinitrotoluene is D030, Hexachlorobenzene is D032 and Chlordane is D020

Christy Warren

U.S. EPA Region 6 Laboratory

Sample Control Coordinator

10625 Fallstone Road

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From: Moore, Gary

Sent: Tuesday, November 04, 2014 7:05 PM

To: Flores, Raymond; Warren, Christy

Subject: CES: Assistance Needed

Ray/Christy:

I need some lab assistance for this site that I am working in Houston. I have having difficulty getting the commerical lab to meet the TCLP regulatory levels due to matrix interferences. I am sending you this database so that you can see where we are having difficulty. It is primarily for 2,4-Dinitrotoluene, Hexachlorobenzene, Chlorodane. Some that we have talked to have talked about SIM Analyses. Do you know what we can do to resolve these issues?

See Table

Thanks

Gary Moore

Federal On-Scene Coordinator

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